

**A B S T R A C T**

First, the wave-front aberration in an optical system PL subject to measurement is measured using a measuring system 70 according to a usual method. After 5 that, by using calculated correction information for aberration components of a second set of order terms based on a model for the measuring system 70 and aberration components of a first set of order terms measured before, the result of measuring aberration 10 components of the second set of order terms is corrected. As a result, aberration components of the second set of order terms can be accurately obtained, so that the wave-front aberration in the optical system subject to measurement is accurately obtained.